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COTS for military applications: been there, done that, got the PC cards

Balakirsky, J.   Hall, W.J., Jr.
Orbital Sci. Corp., Germantown, MD, USA ;
This paper appears in: **Nonvolatile Memory Technology Conference, 1996., Sixth Biennial IEEE International**

Abstract:
OSC/FD has successfully implemented unmodified **PC** Cards in military equipment. These implementations have been for memory only. In one instance **PC** Cards are being used in a new system (Bradley Fighting Vehicle Mass Memory Unit) and in another instance **PC** Cards are being used to cost effectively **upgrade** an existing system (the **PC** Card **upgrade** to the AN/ASQ-215 Navy standard data loader). OSC/FD is working on the application of **PC** Cards (or Credit Electronics) beyond memory. Both **retrofit** and new developments are being considered. Using PC Cards, with their limited processing and interface capabilities, in a complex, multi-processor military applications is significant challenge, but one OSC/FD will achieve

Index Terms:
add-on boards   military equipment   smart cards   COTS   OSC/FD   PC cards   interface capabilities   military applications   military equipment   multi-processor military applications   **retrofit** system **upgrade**

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Embedded PC barriers and solutions: new solutions for creating long-life 386- and 486-class embedded PCs

Reed, B.
Component Products, RadiSys Corp., Beaverton, OR , USA;
This paper appears in: **Northcon/96**

Meeting Date: 11/04/1996 - 11/06/1996
Publication Date: 4-6 Nov. 1996
Location: Seattle, WA USA
On page(s): 191 - 201
Reference Cited: 0
Number of Pages: viii+444
Inspec Accession Number: 5526956

Abstract:
This presentation explores the challenges we face as **embedded** designers when trying to design a long life 386- or 486-class **embedded PC**. Several key issues are identified and solutions are evaluated. In particular, **embedded** PCs based upon the Intel386 EX and Intel486 families of processors and the new RadiSys chipsets are explored. The challenges of ensuring component availability over the long-term is discussed and alternatives are reviewed. Benefits from implementing an **embedded PC** are shown to be real and several examples of successful Intel386 EX and Intel486 based implementations are discussed

Index Terms:
development systems   microcomputers   real-time systems   Intel386 EX processor   Intel486 processor   RadiSys chipset   component availability   **embedded PC** design   life-cycle

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